Appl. No. 10/075,209 Amendment A, March 21, 2003 Reply to Office action of September 25, 2002

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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Claims 1-4 (cancelled)

Claim 5 (new) Device (1) for calibrating a system for double energy conical beam radiography, comprising and assembly of blocks of different thicknesses of a first material, characterized in that the blocks are provided with recesses and in that the device further comprises inserts (7) of a second material to fill the recesses and comprising different height distributions (12, 13), the heights of the inserts and the thicknesses of the blocks being considered in an identical direction, the first material and the second material simulating respective first and second material of an object to be examined by the system, the inserts having proportions and distributions in the blocks which are analogous to proportions and distributions of the second material of the object in the first material of the object.

Claim 6 (new) Calibration device according to claim 5, characterized in that the blocks are assembled in stepped form and the inserts are divided into rows (8 to 11) in a lower layer (2) of the steps, the rows being located under different blocks.

Claim 7 (new) Calibration device according to claim 6, characterized in the steps have tapered faces (6).

Claim 8 (new) Calibration device according to claim 5, wherein the inserts (7) are sufficiently separated to not receive scattered radiation coming from neighboring inserts. Appl. No. 10/075,209 Amendment A, March 21, 2003 Reply to Office action of September 25, 2002

 Claim 9 (new) Method for radiography with a double energy conical beam, comprising an estimation of thicknesses of materials of a radiographic subject by a digital combination of measurements of energy attenuation, involving calibration of coefficients (a, b) of the combination, characterized in that the calibration device according to any one of the preceding claims, and in that scattered radiation affecting the radiography of the calibration device is estimated while providing an estimation criterion used afterwards to estimate scattered radiation affecting the radiography of the subject.